

ACEC-DOT BRIDGE SUBCOMMITTEE

Minutes of May 14, 2007 Meeting

Attendees:

Greg Perfetti, NCDOT (Co-Chair)
Allen Raynor, NCDOT
Lomlie Brooks, NCDOT
Tom Tallman, WSA (Co-Chair)
Tim Rountree, RW A .
Domenic Coletti HDR Engineering
Rodney Money, TY Lin
David Simpson, Simpson Engineering

I. Training

- a. The latest bridge design workshop on "D.L. Deflections in Steel Girder BridgesA Simplified Procedure" was once again deemed to be a success. Domenic stated that he now knows that he needs to obtain the personal microphone system ahead of time and not at the front desk on the day of the workshop. This should help with attendees being able to hear the speaker better throughout the room.
- b. Everyone agreed that the next workshop will be on High Performance Steel (HPS). The date of the workshop will be in July or August depending on the availability of meeting room. Domenic will coordinate this task. HDR will provide a speaker from the consulting side and a speaker from NCDOT will be determined at a later date.

In looking ahead, Greg Perfetti suggested a possible future workshop topic of rating bridges using the LRFR method. This topic and other potential workshop topics will be discussed in more detail at the next bridge subcommittee meeting ..

II. Update on conversion to LRFD

Allen Raynor gave us a brief update on the LRFD conversion. He stated that Program Development is continuing to progress and are wrapping up loose ends on the software development of prestress box beams and cored slabs. In-house squads are continuing to perform double designs (LFD and LRFD) on some projects. Design Manual revisions should be available sometime this summer. This revision will include all policy memos to date as well as LRFD. There is still no definitive date as to the changeover to LRFD design.

Please find attached a copy of an FHWA letter that outlines the implementation schedule for LRFD design.

III. Bridge Policy Changes

The following policy memo has been issued since the February meeting:

Updated TVA Submittal Guidelines - Updated information on submittals and provided new personnel contacts.

This memo is available on the Structure Design Web Page at:

<http://www.ncdot.org/doh/preconstruct/highway/structur/polmemo/>

IV. Status of Potential PEF Advertisements

The following projects were provided by Lonnie Brooks as potential future projects for PEP's;

- November/December 2007 advertisement; November 2010 let date R-4047 (NC 209 at Lake Junaluska) – 1 railroad underpass
- June 2010 advertisement; May 2013 let date R-2527B (Montgomery Co.) - 1 railroad underpass

V. New Co-Chair (ACEC) for 2007/2008

The new Co-Chair from ACEC for 2007/2008 is Rodney Money (TY Lin).

Tom Tallman and Tim Rountree rotate off the subcommittee and will be replaced with new members to be established at the next Transportation Committee meeting.

VI. Next Meeting

The next bridge subcommittee meeting will be on **Monday, August 13, 2007** at 10:00 a.m. in Structure Design Conference Room B.

U.S. Department of Transportation
Federal Highway Administration

North Carolina Division
March 1, 2007

310 New Bern Avenue, Suite 410
Raleigh, NC 27601

Ms. Deborah M. Barbour, P.E.
Director, Preconstruction
North Carolina Department of Transportation
South Wilmington Street
Raleigh, NC 27601

In Reply Refer To:
HDA-NC

Dear Ms. Barbour:

Enclosed is a January 22, 2007, Memorandum which provides further guidance on the implementation of the AASHTO Load and Resistance Factor Design (LRFD) for bridges on all Federal-aid funded projects. It is our understanding that the North Carolina Department of Transportation (NCDOT) continues to make progress in the implementation of the LRFD Specification and that the October 1, 2007, date will be met. Based on information provided by NCDOT, the following schedule was agreed upon.

Implementation schedule:

On or October 1, 2007, structures which meet the following criteria shall be designed utilizing LRFD:

1. Structures over water that have not started the Preliminary Bridge Survey and Hydraulic Design Report.
2. Structures for grade separations which do not have approved Structure Recommendations.
3. Structures advertised for private engineering firm design, which meets criteria #1 or #2 above.

Federally funded emergency projects may be designed by other methods if approved by the State Bridge Maintenance Engineer or the State Bridge Design Engineer with concurrence of Federal Highway Administration.

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ECONOMY

If you have any' questions or comments please feel free to contact Mr. Thomas Drda at 919-856-4760, extension 129.

Sincerely,

d~ rff)~

For John F. Sullivan III, P.E.
Division Administrator

Enclosure

cc: Steve Vamedoe, PE, Chief Engineer - Operations, NCDOT Art
McMillan, PE, State Highway Design Engineer, NCDOT Greg
Perfetti, PE, State Bridge Design Engineer, NCDOT
John Emerson, PE, State Bridge Maintenance Engineer, NCDOT
i'joroge Wainaina, PE, State Geotechnical Engineer, NCDOT David
Henderson, PE, State Hydraulics Engineer, NCOOT
Jay Bennett, PE, State Roadway Design Engineer, NCDOT